BARRIERS AND OPPORTUNITIES

ALTERNATIVE FUELS

GROUND SERVICE EQUIPMENT



CARGO AIRLINES

- **→** NO WALK-ONS
- **→** LOADS
- **→** REMOTE LOCATION
- **→** LACK OF FIXED GATES



FedEx EXPERIENCE

- **→** BAGGAGE TUGS
- ◆ AIRCRAFT TUGS
- **→** AIRCRAFT LOADERS
- **→** CLEAN FLEET



OPERATIONAL COMPATIBILITY

- **→** DUTY CYCLE
- **→** SERVICE DEMANDS
- **→** OPERATOR SAFETY



MAINTENANCE

- **→** DURABILITY
- **→** OEM SUPPORT
- ◆ PARTS AVAILABILITY
- **→** TRAINING



COSTS

- **→** INITIAL INVESTMENT
- **→** INFRASTRUCTURE
- + FUEL
- **→** OUT OF SERVICE
- **→** MAINTENANCE
- **→** TRAINING



BARRIERS

- → FUEL DENSITY
- → FUELING
- **→** RELIABILITY
- → DUTY COMPATIBILITY
- → PARTS AND MAINTENANCE



OPPORTUNITIES

- **→** CENTRALIZED
- **→** LIMITED RADIUS OF OPERATION
- → DECREASING COSTS
- **→** IMPROVING TECHNOLOGY

